

ABSTRACT OF THE DISCLOSURE

A method is disclosed for operating a mobile station in cooperation with a network operator, as is a system including the mobile station and the network operator. The method operates, upon an occurrence of a RR procedure, including HO and CRS, that affects the mobile station, to determine if a location procedure is ongoing in the mobile station and, if it is, to complete the location procedure and to report the measurement results (which may be a failure indication) in a message from the mobile station to a target radio network controller. The location procedure may be, for example, a LCS procedure executed during a Combined Hard Handover and SRNS Relocation procedure for a PS and CS domain, and applies to both intra-SGSN SRNS relocation and for inter-SGSN and SRNS relocation. The location procedure may also be, for example, a LCS procedure executed during a Combined Cell/URA/GRA Update and SRNS Relocation procedure for the PS domain, and also applies to both intra-SGSN SRNS relocation and for inter-SGSN SRNS relocation. When the location procedure is a LCS procedure, the method further sends LCS parameters from a source RNC to the target RNC. The LCS parameters can be sent in a Source RNC to Target RNC Transparent Container in a Relocation Required message, or in a Relocation Commit message, or in a Forward SRNS Context message. The measurement results message may be sent by the mobile station before or after sending a UTRAN Mobility Information Confirm message from the mobile station to the target RNC/BSC.

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